

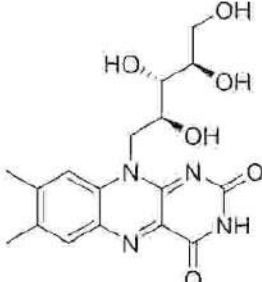
Shughengheng Jiangsu Chemical Company

Certificate of Analysis

Product Code	Product Name:	Batch No:
318661	Riboflavin USP (Vitamin B2USP)	BHJU1696

Manufacturing Date:	2024/02/08	Sample Date:	2024/02/09
Package:	25 Kg	Analysis Date	2024/02/09
Batch Size:	5000 kg	Expiry Date	2027/02/08

Chemical name
7,8-dimethyl-10-[(2S,3S,4R)-2,3,4,5-tetrahydroxypentyl]benzo[g]pteridine-2,4-dione
Synonyms
Riboflavin, Vitamin B2, Vitamin G; Lactoflavin.

Chemical structure	CAS# and Theoretical analysis
	Name: Riboflavin (Vitamin B2) Lot#HS160428 CAS#: 83-88-5 Chemical Formula: C ₁₇ H ₂₀ N ₄ O ₆ Exact Mass: 376.1383 Molecular Weight: 376.36

Test Item	Specification	Result
Appearance	Yellow colour powder	Yellow colour powder
Indentification	solution of 1mg in 100ml of water is pale greenish yellow by transmitted light, and has an intense yellowish-green fluorescence that disappears upon the addition of mineral acids or alkalies.	Conform
Specific rotation	-115°~ -135°	-118°
Loss on drying	≤1.5%	1.2%
Residue on ignition	≤0.3%	0.2%
Lumiflavin	440nm absorbance ≤0.025	0.009
Assay(on dry basis)	98.5%~102%	> 99%
Conclusion:	Complies with the Standards	

质量主管(Q.C Director)	复核员(Rechecker):	检验员(Analyst)
Sanping Zhen	Xioayu Yang	Lili Ma